

Patent claims

1. A method for generating operating components for operating devices of automation components, characterized by engineering an automation component by means of a plurality of engineering steps in an engineering system,  
  
offering one or more design steps for an operating component in the case of one or more of the engineering steps, and assembling the operating component at least partly with the aid of the design steps and the information on which the engineering steps are based.
2. The method according to claim 1, wherein the operating component is a human machine interface surface.
3. The method according to claim 1, wherein the offering comprises deriving servicing and/or diagnostic images from the engineering steps.
4. The method according to claim 1, wherein having a subsequent step in which the operating component is post-processed or supplemented by means of external tools and/or importation of additional information, in particular images.

5. The method according to claim 1, wherein having optional regeneration of a consistent operating component based on an existing operating component in the event of a change in one or more of the engineering steps, in particular in the event of their updating.
6. The method according to claim 1, wherein the assembly of the operating component is performed automatically on the basis of a determination of relevant variables by an operator in the engineering steps.
7. The method according to claim 1, wherein data for the operating component are generated and stored in a format readable to standard Internet clients, in particular XML or HTML.
8. The method data for the operating component are stored on an automation component, outside the automation component, on an operating device or on a data server.
9. A device for parametrizing, commissioning and programming controllers, having an engineering device for the purpose of providing for an operator the engineering steps relating to parametrization, commissioning and/or programming, characterized in that the engineering device can be used to set operating components for operating devices of automation components by

offering the operator one or more design steps for an operating component in the case of one or more of the engineering steps.

10. The device according to claim 9, wherein the operating component is a human machine interface surface.
11. The device according to claim 9, wherein the engineering device can be used to derive for the operating component from the engineering steps information or servicing and/or diagnostic images on which the engineering steps are based.
12. The device according to claim 9, wherein the operating component can be post-processed by means of external tools and/or importation of additional information, in particular images.
13. The device according to claim 9, wherein the engineering device has a consistency device with the aid of which it is possible to produce automatically from an existing operating component a consistent operating component based on changes in one or more engineering steps, in particular in the case of their updating.

14. The device according to claim 9, wherein relevant variables for the operating component can be assembled in the engineering device by an operator in the engineering steps.
15. The device according to claim 9, wherein data for the operating component can be generated and stored in a format readable to standard Internet clients, in particular XML or HTML.
16. The device according to claim 9, wherein having a data server for storing data of the operating component, access being granted to the data of one or more operating devices.